

NUCLEAR DECOMMISSIONING CITIZENS ADVISORY PANEL PUBLIC SERVICE DEPARTMENT

Nuclear Decommissioning Citizens Advisory Panel Annual Report to the Governor and the Vermont Legislature

2022

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Note that text appearing in Yellow Highlight indicates a placeholder paragraph or section that will be replaced after the Panel's December 12 Meeting

2 2 2022 Annual Report to the Governor of Vermont and the 3 Energy Committees of the General Assembly 4 (House Energy & Technology, 5 House Commerce & Economic Development, 6 House Natural Resources, Fish and Wildlife, and 7 Senate Natural Resources & Energy Committees) 8 9 I. Statutory Authority and Duties 10 The nineteen-member Vermont Nuclear Decommissioning Citizens Advisory Panel ("NDCAP" or the "Panel") was established during the 2014 Legislative Session as part of Act 179 (Section E.233 pages 141 through 148 of the Act). Details on the original membership and duties of NDCAP were outlined in this Act., which is available online at: 15 https://legislature.vermont.gov/Documents/2014/Docs/ACTS/ACT179/ACT179%20As%20Ena ted.pdf. 17 Current Membership and duties of NDCAP were established during the 2021 legislative session as part of Act 54, (Section 13, pages 11 through 16 of the Act). Details on the current membership and duties of NDCAP are available online at: 18 https://legislature.vermont.gov/statutes/fullchapter/18/034.	1	- Nuclear Decommissioning Citizens Advisory Panel -
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<u>ACT 54 of the 2021 Legislative Session</u>. Where any discrepancies between Act 54 language and NDCAP Charter exist, the Act 54 language takes precedence.

NDCAP's Federal Nuclear Waste Policy (FNWP) Committee studies federal policy options for nuclear waste and considers how Vermont Yankee is situated within the national landscape. By methodically procuring input from Vermont's federal delegation, industry experts and other stakeholders, the Committee accordingly advances the learning goals of NDCAP Should the Committee arrive at an any affirmative policy position, the Committee will recommend that NDCAP adopt the advisory opinion, pursuant to the Panel's stated purpose, where: "NDCAP shall advise the Governor, General Assembly, the agencies of the state, and the public on issues related to decommissioning."

III. Meeting Highlights

The NDCAP held five Full Panel meetings in 2022; meetings were held in January, February, May, September, and December. Additionally, the NDCAP FNWP Committee held five meetings in 2022. FNWP Committee meetings were held in January, March, May, October, and December. All Full Panel and FNWP Committee meetings were open to the public and opportunities for public comments were provided. Because of the continuing COVID- 19 pandemic, with the exception of the January 10 Full Panel meeting, all 2022 NDCAP meetings were conducted entirely as webcasts, as was permitted by ACT 78 of the 2022 Legislative Session. (Full Panel webcasts were conducted via Zoom using services provided by Brattleboro Community Television. FNWP Committee webcasts were conducted using Microsoft Teams.) The January Full Panel meeting was conducted primarily as Microsoft Teams webcast. However, in compliance with Open Meeting Law, a physical meeting space was available in downtown Brattleboro for this meeting.

The May, September, and December Full Panel meetings included updates on recent VY decommissioning activities by both NorthStar and the State of Vermont. Educational and issuespecific topics were also discussed at these meetings. The January and February Full Panel meetings each focused on dedicated topics that had previously been identified at the Panel's December 2021 meeting. Opportunities for discussion and comments from Panelists and the public on all covered topics were provided during each meeting. A summary of each Full Panel meeting is presented below.

The minutes of each meeting can be found on the NDCAP website (a dedicated section of the Public Service Department website) at http://publicservice.vermont.gov/electric/ndcap. A complete video or webcast recording for each meeting can be found at: https://www.brattleborotv.org/vt-nuclear-decommissioning-citizens-advisory-panel.

Links to these video recordings are also available through the NDCAP website. Additional information regarding VY's active decommissioning is available at the Public Service Department's "VY Decommissioning" website at:

83 https://publicservice.vermont.gov/content/vermont-yankee-decommissioning.

Further details and meeting summaries of the FNWP Committee meetings held in 2022 are available in Section XI.B of this report.

January 10, 2022

The primary purpose of this meeting (as agreed upon at the Panel's December 2021 meeting) was to review and potentially approve the Panel's 2021 Annual Report to the Vermont Legislature. The draft Annual Report that was considered is available in the "Meeting of January 10, 2022" materials section on the Panel website (https://publicservice.vermont.gov/electric/ndcap). Several minor changes based on Panel and public feedback were incorporated after discussion during the meeting. Several additional comments from Panelist Lissa Weinmann were not incorporated after several Panelists expressed concern that the comments would introduce significant additional detail that had not had opportunity for review by other Panelists.

After additional discussion, consensus was reached that shorter versions of these comments could be incorporated into the report. Further details on Panel activities could be provided at the request of the Legislature. Details of the additional comments are available in the January 10 meeting minutes and the "Meeting of January 10, 2022" materials section on the Panel website.

The revised 2021 Annual Report was approved by the Panel by a 10-0 vote (with 2 abstentions) and is available at:

https://publicservice.vermont.gov/content/2021-annual-report

The Panel also discussed and approved a breakdown of the Panel's FY 2022 budget. The approved breakdown is available at: https://publicservice.vermont.gov/sites/dps/files/documents/NDCAP 2022 Approved Budget.p

df.

Because this meeting occurred prior to the passage of <u>ACT 78 of the 2022 Legislative Session</u>, this was the Panel's only meeting in 2022 in which a physical meeting location was designated. While one Panelist attended the meeting from this location, all members of the public in attendance joined the meeting via webcast.

February 28, 2022

The primary purpose of this meeting (as agreed upon at the Panel's December 2021 meeting) was to consider the US Department of Energy's (DOE's) request for comments on a Consent-Based Siting process for selecting potential spent nuclear fuel (high-level radioactive) waste repositories within the continental United States. The meeting featured a presentation with a questions and answers period with Dr. Kim Petry, DOE Acting Deputy Assistant Secretary for Spent Fuel and Waste Disposition. Several additional DOE Office of Nuclear Energy officials also attended this meeting to answer questions. Additionally, Dr. Thomas Webler of the Social & Environment

Research Institute outlined research that he has conducted regarding the development of Consent-Based Siting processes for spent nuclear fuel disposal facilities.

Presentations provided for these discussions are available in the "Meeting of February 28, 2022" materials section on the Panel website. Details on DOE's Consent-Based Siting effort are available from the following DOE website: https://www.energy.gov/ne/consent-based-siting.

DOE discussion and responses to questions emphasized that the Department of Energy is not currently seeking volunteer communities for hosting a spent nuclear fuel repository. The current effort is a first step to develop the process by which a potential host community can engage with the DOE to learn more about potentially hosting repository. The current process is geared towards siting a Consolidated Interim Spent Fuel Storage Facility because the DOE currently has Congressional funding to pursue a Consolidated Interim Storage Facility (CISF). The purpose of the Consent-Based Siting effort is to build trust between DOE and potential facility host communities. DOE will regard the Consent-Based Siting effort to be successful if communities express interest in hosting a facility. The process will still be considered successful if a community expresses interest, learns more about hosting a facility, but later withdraws from the process. Responses provided to the Consent-Based Siting questionnaire will drive DOE's next steps, with the intent of providing a just selection process.

Dr. Webler's presentation noted that consent means different things to different people. With regards to siting a spent fuel storage facility, there are four general views on consent:

- a) The "Expedient Yes" view siting is acceptable when a good science and safety case are available
- b) The "Acceptance to Gain Trust" view independent oversight is needed for the siting to work; this oversight develops from the grass-roots level.
- c) The "Inclusion and Transparency" view a facility power-share between DOE and the host community is needed. The community needs independent confirmation of DOE-reported status, usually through the community hiring its own experts.
- d) The "Demonstrate Legitimacy" view DOE must show that it is listening to community feedback on the process. Time must be taken to "do it right."

Further details on the discussions with the DOE Officials and Dr. Webler are available in the meeting minutes and meeting recording available in the "Meeting of February 28, 2022" materials section on the Panel website.

 A draft Advisory Opinion offered by the Panel's Federal Nuclear Waste Policy Committee in response to DOE's Consent-Based Siting questionnaire was then discussed. (The draft represents a noteworthy and significant effort by FNWP Committee members with divergent viewpoints to hash-out a consensus in a respectful and civil manner, which the Committee hopes can serve as a model for others as the country seeks a workable policy solution for the nation's accumulating nuclear waste.) Based on the presentations provided earlier in the meeting and after hearing

feedback from members of the public, the Panel voted to approve this Advisory Opinion. The
Approved Advisory Opinion is available from the Panel's website at:

https://publicservice.vermont.gov/content/vt-ndcap-response-doe-consent-based-siting-rfi.

The Approved Advisory Opinion is included in Appendix A of this report. The Approved Advisory Opinion was submitted to the US Department of Energy as a public comment on its Consent-Based Siting Process. The DOE received 225 comments in response to its questionnaire. These comments are available from the following DOE website:

https://www.energy.gov/ne/articles/responses-rfi-using-consent-based-siting-process-identify-federal-interim-storage in the document listed as "Public Responses to RFI." The Approved Advisory Opinion appears on pages 379 through 383 in this document. The Vermont State Nuclear Engineer, Tony Leshinskie, filed additional comments on behalf of the Vermont Public Service Department. These comments appear on pages 1026 through 1035 in the "Public Responses to RFI" document.

May 9, 2022

 The Panel's first regular meeting of the year occurred on May 9. Unlike the January 10 and February 28 that focused on the 2021 Annual Report and DOE's Consent-Based Siting Process, respectively, the May 9 meeting was the first 2022 Panel meeting in which NorthStar and several State Agencies summarized VY decommissioning activities during the current calendar year.

• NorthStar Update on VY Site Decommissioning Activities:

Panelist Corey Daniels, VY's Senior Spent Fuel Storage Manager, summarized decommissioning activities completed since December 2021. (Slides for this presentation are available from the Panel's website.) Reactor Vessel (RV) segmentation has progressed to segmenting the cylindrical portion of the RV itself. Grout has been injected into the RV lower dome to simplify collecting of metal shavings produced by the segmentation. Recent equipment removals from the Reactor Building include Hydraulic Control Unit components, Control Rod Pump system components, and the Stand-By Liquid Control tanks. Creation of a new accessway between the Reactor and Turbine Buildings was described. Removal of components at the River Intake and Discharge Structures continue; most recently, the Discharge Pumps were removed.

On May 1, the electrical feed from VY's Start-Up Transformers was disconnected, which transitioned the Power Block (Reactor, Turbine, Control Room, and Service) Buildings to a "Cold and Dark" condition. Going forward, electricity to these buildings will be supplied through a temporary power bus or via portable diesel generators, as needed. Achieving Cold and Dark conditions is a major milestone for the decommissioning project. All station power lines in the Power Block Buildings are now abandoned, which allows for a "rapid but controlled" removal of wiring and cable trays. Over 40 miles of wiring must be removed.

• Public Service Department (PSD) Update:

PSD Special Counsel Eric Guzman outlined PSD's fiscal oversight of the VY Decommissioning project required by the Memorandum of Understanding (MOU) in effect as part of NorthStar's purchase of VY. Nick Capik and Mark Gymr of Four Points Group (FPG), PSD's consultants for overseeing the project, were also present to provide additional information, as needed. (Slides for this presentation are available from the Panel's website.)

PSD's financial and technical oversight role was outlined, which includes receiving updates on work completed versus work remaining and project expenditures versus funds remaining. PSD coordinates with other State Agencies and FPG to assess project status and whether decommissioning trust fund reimbursement requests are consistent with the work completed. PSD also meets with NorthStar regularly to conduct any follow-up necessary on NorthStar's self-reporting. Regular site visits by FPG are conducted to observe completed work. The most recent visit was on May 5. The site visits continue to show that project progress is consistent with that described in NorthStar's status reports. NorthStar remains on track to complete the project in 2026 with the currently available funding.

NorthStar's required project Annual Financial Disclosures were received by their March 31 deadline and are currently under review by PSD, Agency of Natural Resources, Department of Health, and the Attorney General's Office. These reviews thus far have not raised any causes for concern for completing the VY decommissioning project as expected

• Department of Environmental Conservation (DEC) Update:

Graham Bradley, Hazardous Sites Manager in DEC's Waste Management and Prevention Division outlined the Agency of Natural Resources (ANR) / DEC's recent interactions with VY. (Slides for this presentation are available from the Panel's website.) Regular status calls (usually on a biweekly basis), draft permit and corrective action plan reviews continue. DEC continues to work closely with NorthStar's remediation contractor, Haley & Aldrich, to address contaminant issues in previously identified Areas of Concern (AOCs). No new contamination areas have been found onsite. Samplings at the former Cooling Tower sites were described. No contaminations have been identified, but sampling will continue. Volatile Organic Compounds (VOCs) sampling near the Turbine Building has identified two sites requiring clean-up. These were expected since vehicle fuels were stored in these areas. Contaminated soil detected near the former East Cooling Tower Transformer site was removed and used as ballast in a radioactive waste shipment sent to Waste Control Specialists (WCS).

• **During Panel Questions**: Panelist Marvin Resnikoff asked about the status of VY's Greater-than-Class C (GTCC) waste. Corey Daniels replied that all GTCC waste has been downsized and packaged for placement in the Non-Fuel Waste Container that will eventually be moved to VY Independent Spent Fuel Storage Installation (ISFSI, aka VY's Dry Cask Storage Pads). The GTCC waste packaging is currently in the Spent Fuel Pool. The move to the ISFSI will likely take place in October or so (later restated as between August and October). However, the move will not occur until RV disassembly is complete. The GTCC waste move requires the Reactor Building Crane

which is currently essential to the RV disassembly work. The Spent Fuel Pool will be decommissioned once the GTCC waste move is complete.

Panelist Lissa Weinmann asked whether any Indigenous Peoples / cultural issues have arisen during VY's decommissioning. Was NorthStar still in contact with the Abenaki Nation representative, Rich Holschuh? Corey Daniels indicated that all site employees had been trained about spotting and respecting potential Native American artifacts. However, with the site having previously been disturbed ground, nothing has been found so far. Corey indicated he would contact Rich about the possibility of a blessing ritual.

• In Response to Questions from the Public: Corey Daniels clarified that all spent fuel transfers to the ISFSI were completed in 2018. (This evening's discussions addressed waste from RV segmentation.) All GTCC waste continues to be stored onsite. Mr. Daniels also clarified that pipes at depths 4 feet or more below grade that are clean and stabilized may be left in place rather than removed. However, any piping having radiological contamination will be removed. It was also noted that High Efficiency Particulate Air (HEPA) filters are used during the RV segmentation process to assure that a cool, clean air supply is available to workers in the Reactor Building. The HEPA filters assure that any potential particulates are removed from the building air.

• In Early General Public Comments: The Panel was asked to improve its public outreach. State Nuclear Engineer Tony Leshinskie outlined the press release distribution process that normally occur prior to any NDCAP meeting. He also noted that he now directly controls updates to the Panel website and is using the opportunity to improve its organization. Comments and suggestions for website improvements are sought, which can be sent to the Panel's email address (PSD.NDCAP@vermont.gov). Concern was also raised because the meeting thus far was being conducted without a quorum of Panel members present. Panelists who are frequently absent from meetings should be reminded of their duties and should consider resigning if they are unable to serve.

Panel Chair Emily Davis noted that because Legislature was called into session this evening on short notice, several Panelists became unexpectedly unavailable shortly before the meeting's start. She suggested that meeting attendance could be pursued through the Public Service Commissioner's Office. At this point, State Nuclear Engineer Tony Leshinskie noted that Panelist Bob Leach had recently joined the meeting webcast. The Panel now had a quorum for the meeting (which subsequently allowed the Panel to formally approve meeting minutes for the December 2021, January and February meetings).

Discussion of Federal Nuclear Waste Policy (FNWP) Committee Activities:

Lissa Weinmann, Chair of the Panel's Federal Nuclear Waste Policy Committee, briefly described the Committee's most recent activities. Representatives from Deep Isolation, Inc. outlined their proposed alternative for geologic spent fuel repositories at the Committee's March 28 meeting. (Details of this proposal are discussed in Section XI.B of this report.) The Committee will meet

again on May 23. Tony Leshinskie is working on having representatives from Holtec International attend this meeting to discuss their current plans for long-term monitoring and aging management for dry cask storage systems, such as those currently used at the VT Yankee site.

• **During General Public Comments:** The Panel was asked to do more to publicize its recent Advisory Opinion on Spent Nuclear Fuel disposal, as this work is very important. The Legislature, Governor's Office, relevant State Agencies, Vermont's Congressional Delegation, and the Public must be kept apprised of Panel activities, particularly when Advisory Opinions are published.

September 19, 2022

Much like the Panel's May 9 meeting, the September 19 meeting largely consisted of reports from NorthStar and several State Agencies on recent VY decommissioning activities. Several Panel administrative items were also discussed. With 11 Panelists in attendance at the start of the meeting (a twelfth Panelist joined late), a quorum was present throughout the meeting (9 Panelists required for quorum).

• NorthStar Update on VY Site Decommissioning Activities:

NorthStar Panelist Corey Daniels summarized decommissioning activities completed since May 2022. (Slides for this presentation are available from the Panel's website.) It was noted that NorthStar continues to work without an OSHA Recordable Lost Time Accident since starting VT Yankee's active decommissioning in January 2019. The NRC has issued no cited violations, nor have there been any non-cited violations, during this time. Progress on dismantling Reactor Building (RB) components and the demolition of other onsite structures was described. The Control Room and the RB Computer Room have been completely cleared of components. Cabling between the Control, Cable Spreading, and Switchgear Rooms has been cleared. Demolition of the Control Block Building (which housed the Control and Computer Rooms) has begun. Preparations for Turbine Building demolition continue.

Excavation and downsizing of the Interim Off-Gas (IOG) System was discussed, as was land regrading at the Cooling Towers site. Progress on the new accessway between the Reactor and Turbine Buildings was described. A monorail system is being constructed to facilitate removal of the RB Torus structure through this accessway. Clearing of Torus structure internal components was described. Segmentation and removal of the Reactor Vessel (RV) has completed; the last several steps were described in detail. Demobilization of RV segmentation equipment is underway.

• Department of Environmental Conservation (DEC) Update:

Panelist Trish Coppolino, ANR / DEC Waste Management and Prevention Division Program Manager, outlined the Agency of Natural Resources (ANR) / DEC's recent interactions with VY. (Slides for this presentation are available from the Panel's website.) Regular status calls, draft permit and corrective action plan reviews continue. Sampling programs for non-radiological

contaminants continue to show no significant contamination issues at the VY site. No unexpected site contaminations have been identified thus far. ANR/DEC continues to work closely with NorthStar's remediation contractor, Haley & Aldrich, and DEC's consultant, Atlas, on plans for addressing potential contaminant issues at VY's previously identified Areas of Concern (AOCs). DEC is currently reviewing VT Yankee's annual groundwater monitoring report, which was received in June as required. Due to ongoing structure demolitions onsite, DEC's groundwater monitoring program is currently down to four sampling wells. The monitoring program has collected data for over three years without identifying new causes for concern. Additional monitoring wells will be sampled as onsite demolitions complete.

Recent samplings for PFAS (per- and polyfluoroalkyl substances) have identified several contaminated locations (as expected). However, the environmental impacts are expected to be minor; the contamination levels are only slightly above EPA limits. Samplings for PCBs and Volatile Organic Compounds (VOCs) continue.

Corrective Action Plans for addressing contaminations in onsite AOC #5 and AOC #7 are currently available for public comments. These planned remediations, once fully approved, would occur sometime in 2023.

• Public Service Department (PSD) Update:

Jim Porter, PSD Director for Public Advocacy outlined PSD's fiscal oversight of the VY Decommissioning project required by the Memorandum of Understanding (MOU) in effect as part of NorthStar's purchase of VY. Nick Capik and Mark Gymr of Four Points Group (FPG), PSD's consultants for overseeing the project, were also present to provide additional information, as needed. (Slides for this presentation are available from the Panel's website.) PSD's financial and technical oversight role was outlined similarly to the report provided at the May 9 Panel meeting. Regular site visits by FPG are conducted to observe completed work. The most recent visit was on July 18. The observed project progress was consistent with that described in NorthStar's most recent (May and June 2022) status reports.

Updates on the Decommissioning and Site Restoration Trust Funds were provided. As of August 31, approximately \$211.3 million remains in the Decommissioning Trust; approximately \$51.7 million remains in the Site Restoration Trust. As of August 30, the projected cost to complete Site Restoration is \$12.6 million. However, the projected cost to complete Decommissioning and License Termination is \$214 million, meaning that there is currently a shortage in the Decommissioning Trust Fund. PSD believes that the current Decommissioning Trust shortage is reflective of rising interest rate impacts on the Decommission Trust investments. The Decommissioning and Site Restoration Trust balances do not include the \$55 million Financial Assurance Escrow required by Paragraph 2(c) of the Memorandum of Understanding (MOU) established for VT Yankee's decommissioning. Overall, NorthStar remains on track to complete the project on schedule with the currently available funding

• Additional Agency Reports: Panelist Bill Irwin, Vermont Radiological & Toxicological Sciences Program Chief, reported that Vermont Department of Health continues to be satisfied with the reporting NorthStar has provided to date. The reports indicate that the project is moving forward reasonably and responsibly.

- **During Panel Questions**: In response to a question from Panelist Bill Irwin, Corey Daniels indicated that building intrusion water continues to be collected as necessary. The water is initially held in storage (frack) tanks and is then shipped offsite for disposal.
- In response to questions from the Public: Corey Daniels indicated that all radioactive materials shipped offsite are sent to Waste Control Specialists (WCS) facilities in Texas. However, some pre-release (non-radiological / non-hazardous) materials are shipped to industrial disposal facilities. He also clarified that some parts of the Reactor Vessel are being shipped offsite since they still qualify as Low-Level Radioactive waste. Only spent nuclear fuel qualifies as High-Level Radioactive Waste. The next most radioactive waste category, Greater Than Class C (GTCC) radioactive waste is the only low-level radioactive waste category that cannot be shipped. VY's GTCC waste consists of several Reactor Vessel internal components, but not the Reactor Vessel itself. VT Yankee's GTCC waste is expected to be moved to the onsite Spent Fuel Storage Facility (aka the Dry Cask Storage pads or ISFSI) within the next month.

In response to a question from State Nuclear Engineer Tony Leshinskie, Corey Daniels indicated that, with the completion of VY's Reactor Vessel segmentation, Orano's work on the VY decommissioning project is coming to an end. However, Orano is still responsible for some Spent Fuel Pool clean-up items and several tasks related to transferring the GTCC Waste to the onsite ISFSI.

• In the Early General Public Comments: A Citizens Awareness Network representative reiterated comments from previous meetings that the Panel needs more public outreach. Citizens Awareness Network is open to assisting the Panel with this. It was also noted that the Panel had problems meeting quorum at its last meeting. Vacancies on the Panel need to be filled.

In response to a question from Panelist Lissa Weinmann regarding the current decommissioning schedule, Corey Daniels indicated that that NorthStar still anticipates beating the 2030 decommissioning project deadline by a few years. Active decommissioning could complete in 2026. However, this early end date does not include time for completing all site release activities. Those would complete in 2027, assuming that ongoing decommissioning work continues to progress smoothly. NorthStar's overall goal is to do the decommissioning project right with the currently available funding. The project remains on track to be completed within the available budget.

Panelist Chris Campany noted that the Statute establishing the Panel will need to be revisited once active decommissioning is complete. State Nuclear Engineer Tony Leshinskie added that the

Yankee Rowe Spent Fuel Storage Facility's Community Advisory Panel could serve as a model for VT NDCAP once VY's active decommissioning is complete.

• Panel Membership Changes & Administrative Items: Panel Chair Emily Davis noted that Sara Coffey's term on the Panel expired at the end of August. She declined reappointment. Accordingly, there are now three vacancies on the Panel, the Massachusetts Towns representative, the New Hampshire Towns representative and one of two citizen appointees by the Vermont House Speaker (Sara Coffey's former position on the Panel). Ms. Davis reported that the House Speaker's Office is looking for recommendations for a new appointee. If anyone on the Panel has suggestions, they can be forwarded to the Panel Chair.

State Nuclear Engineer Tony Leshinskie noted that filling a Panel vacancy is easier when there is a volunteer willing to accept the position. Panelist Chris Campany added that recruiting Panelists was likely easier when "groundworks" discussions for VY's decommissioning were underway. Discussing plans and items such as the PSDAR (Post-Shutdown Decommissioning Activities Report) were likely more interesting than the Panel's more recent meetings discussing steady decommissioning progress. Mr. Campany suggested that the Press present include that the Panel is looking for new members in its coverage of this evening's meeting.

Emily Davis proposed drafting a press release highlighting the Panel's recent work and noting that it is looking new members to fill several vacancies. After additional discussion, the Panel agreed with this idea. Ms. Davis agreed to have a draft of the press release available at the next Full Panel meeting. After additional discussion, the Panel agreed that the proposed press release would focus on filling the vacant Vermont House Speaker's appointee position.

Panel Notifications on NRC Decommissioning Rulemaking: Panel Chair Emily Davis noted that an opportunity for public comments on the NRC's Decommissioning Rulemaking recently closed without the Panel discussing whether it wanted to consider commenting on these proposed rules. Ms. Davis asked whether the Panel wished to pursue comments on this Rulemaking.

 State Nuclear Engineer Tony Leshinskie briefly outlined the history of this NRC Rulemaking effort, which began in late 2015, when the NRC published a detailed questionnaire on decommissioning-related topics for which it was considering rulemaking. Vermont State Agencies provided a combined comments set on the questionnaire in early 2016, which were endorsed by Massachusetts, New York, and Connecticut. Follow-up comments were provided to the NRC in mid-2017. The currently proposed NRC rules focus on transitioning an operating power plant to active decommissioning. VY's decommissioning is well past this phase, hence, the currently proposed rules would not impact VY's decommissioning. Accordingly, this rulemaking effort has not been a high priority for Vermont. Nonetheless, when asked to endorse comments from New York State on the currently proposed rules, the State Nuclear Engineer recommended that Vermont endorse them since they reiterated Vermont's comments filed in 2016 and 2017.

464 Chris Campany added that Windham Regional Commission has filed comments on 465 decommissioning rulemaking for decades. The comments have not changed much in that time, 466 but WRC is open to hearing or suggesting Panel Positions. Lissa Weinmann suggested that the 467 Panel could endorse decommissioning rulemaking comments filed by other organizations, such as 468 the International Brotherhood of Electrical Workers (IBEW).

Panel Chair Emily Davis asked if any Panel members felt that the Panel should review the NRC's decommissioning rulemaking further. No replies were heard. Consensus was reached that the Panel should consider endorsing IBEW's comments the NRC decommissioning rulemaking.

The Panel then discussed improving notifications of upcoming decommissioning-related actions. After requesting clarification, Tony Leshinskie agreed to keep the Panel informed on any requests from Federal Agency regarding decommissioning-related topics, as well as any significant State actions in decommissioning-related topics.

Panel Chair Emily Davis noted that US Department of Energy published its initial report on received Consent-Based Siting Process comments on September 15. More information on the next steps in the process will be available soon.

• Discussion of Federal Nuclear Waste Policy (FNWP) Committee Activities:

Lissa Weinmann, Chair of the Panel's Federal Nuclear Waste Policy Committee, briefly described the Committee's most recent activities. The Committee has been less active over the summer but continues to learn about nation nuclear waste policy issues. The Committee had planned to meet on August 22, but that meeting had to be postponed when the scheduled speaker became unexpectedly unavailable.

State Nuclear Engineer Tony Leshinskie provided additional details. Oliver Edelson, Legislative Assistant to California Congressional Representative Mike Levin, has agreed to speak to the FNWP Committee. Congressman Levin co-chairs the Congressional Spent Nuclear Fuel Solutions Caucus, which Mr. Edelson administers. From preliminary discussions with Mr. Edelson, the Caucus is in a learning phase much like the FNWP Committee is. The Caucus has begun outreach to other organizations interested in nuclear waste policy issues. Opening a discussion with the Caucus could be beneficial for the Panel.

Based on Mr. Edelson's availability, the FWNP Committee's next meeting has been rescheduled to Monday, October 3 from noon to 1:30 PM.

• **General Public Comments:** The Panel was thanked for tonight's discussions on improving public outreach.

December 12, 2022 (this section will be finalized after the December 12 meeting)

Much like the Panel's May and September meetings, the December 12 meeting largely consisted of reports from NorthStar and several State Agencies on recent VY decommissioning activities. The Panel's Annual Report was finalized and Election of Officers was conducted. With 13 Panelists in attendance at the start of the meeting, a quorum was present throughout the meeting (9 Panelists required for quorum).

• NorthStar Update on VY Site Decommissioning Activities:

NorthStar Panelist Corey Daniels summarized decommissioning activities completed since September 2022. (Slides for this presentation are available from the Panel's website.) It was noted that the NorthStar continues to work without an OSHA Recordable Lost Time Accident since starting VT Yankee's active decommissioning in January 2019. The NRC has issued no cited violations during this time. Progress on dismantling Reactor Building (RB) components and the demolition of other onsite structures was described. Demolition of the Control Block Building (which housed the Control and Computer Rooms) is complete, as is demolition of the Containment Access Building. Demolition of the Reactor Building Airlock is underway. Preparations for Turbine Building demolition continue.

On October 19, VY's Greater-Than-Class C (GTCC) low level radioactive waste was moved to the ISFSI. The GTCC waste consists of several highly contaminated VY Reactor Vessel (RV) internal components which had been stored temporarily in VY's Spent Fuel Pool following their removal from the RV. The GTCC waste is stored in a Non-Fuel Waste Container, which is similar to the dry casks used to store VY's spent nuclear fuel on the ISFSI pads.

Confirmatory radiological surveys at the Cooling Towers site were conducted during the week of November 14 by an independent contractor (Oak Ridge Institute for Science and Education). The monorail system in the new accessway between the Reactor and Turbine Buildings is fully operational. Clearing of Torus structure components continues. Demobilization of RV segmentation equipment has completed. Orano's work on the VY decommissioning project has completed.

• Department of Environmental Conservation (DEC) Update:

Graham Bradley, Hazardous Sites Manager in DEC's Waste Management and Prevention Division outlined the Agency of Natural Resources (ANR) / DEC's recent interactions with VY. (Slides for this presentation are available from the Panel's website.) Regular status calls, draft permit and corrective action plan reviews continue. Sampling programs for non-radiological contaminants continue to show no significant contamination issues at the VY site. No unexpected site contaminations have been identified thus far. ANR/DEC continues to work closely with NorthStar's remediation contractor, Haley & Aldrich, and DEC's consultant, Atlas, on plans for addressing potential contaminant issues at VY's previously identified Areas of Concern (AOCs). DEC is closely following the remediation of the drain lines for the VY's abandoned onsite Chemistry Lab (located in a gutted section of the Turbine Building).

• Public Service Department (PSD) Update:

Jim Porter, PSD Director for Public Advocacy outlined PSD's fiscal oversight of the VY Decommissioning project required by the Memorandum of Understanding (MOU) in effect as part of NorthStar's purchase of VY. Nick Capik and Mark Gymr of Four Points Group (FPG), PSD's consultants for overseeing the project, were also present to provide additional information, as needed. (Slides for this presentation are available from the Panel's website.) PSD's financial and technical oversight role was outlined similarly to the report provided at the May and September Panel meetings. Regular site visits by FPG are conducted to observe completed work. The most recent visit was on November 30. The observed project progress was consistent with that described in NorthStar's most recent status reports.

Overall, NorthStar remains on track to complete the project on schedule with the currently available funding.

• **During Panel Questions**: In response to a question from Panelist Bill Irwin, Corey Daniels indicated that building intrusion water continues to be collected as necessary. The water is initially held in storage (frack) tanks and is then shipped offsite for disposal.

• In response to questions from the Public: Corey Daniels indicated that all radioactive materials shipped offsite are sent to Waste Control Specialists (WCS) facilities in Texas. However, some pre-release (non-radiological / non-hazardous) materials are shipped to industrial disposal facilities. He also clarified that some parts of the Reactor Vessel are being shipped offsite since they still qualify as Low-Level Radioactive waste. Only spent nuclear fuel qualifies as High-Level Radioactive Waste.

• In the Early General Public Comments: The Panel was asked to continue work on improving its public outreach. Concern was expressed that Panel meetings needed to be publicized more.

• Discussion of Federal Nuclear Waste Policy (FNWP) Committee Activities:

Lissa Weinmann, Chair of the Panel's Federal Nuclear Waste Policy Committee, briefly described the Committee's most recent activities. The Committee met on October 5 and December 5. The October 5 meeting featured a presentation by Mr. Oliver Edelson, Legislative Assistant to California Congressional Representative Mike Levin. Congressman Levin co-chairs the Congressional Spent Nuclear Fuel Solutions Caucus, which Mr. Edelson administers. The presentation discussed several bills recently introduced in Congress that could address national spent nuclear fuel issues.

At the December 5 meeting, the FNWP Committee members brainstormed for nuclear waste policy items to pursue further in 2023. The Committee agreed to meet next on XXXXXX XX, 2023.

591 • Draft Annual Report for	2022
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A first draft of the Panel's 2022 Annual Report to the Legislature, authored primarily by State Nuclear Engineer Tony Leshinskie, was reviewed. Directions for completing the report by its January 15, 2023 were authorized.

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• Election of New Panel Officers: In separate votes, XXXXXXX was elected Panel Chair and XXXXXXX was elected Panel Vice-Chair for terms of 1 year. The Panel thanked Emily Davis and Josh Unruh for their service as Panel Chair and Vice-Chair, respectively, in 2022.

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• **General Public Comments:** Emily Davis and Josh Unruh were thanked for their service as Panel Chair and Vice-Chair, respectively, in 2022.

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IV. Major Milestones and Activities at the Vermont Yankee Site

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• 1/3 Site Decommissioning Activities resume following Holiday Break

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- 1/3 Preparations for segmenting the Reactor Vessel (RV) itself begin; Collection of metal shavings and cutting media from RV internals segmentations underway;
 Decontamination of exposed RV Cavity & Dryer / Separator Pit (DSP) walls resume;
 Turbine Building (TB) piping and equipment removals resume; Clearing of Radwaste Processing Building rubble and River Intake Structure components resume; West Cooling Tower foundation demolition resumes; Radioactive waste shipments via
- 612 railcars resume
 - 1/10 Removal of Control Blade Hydraulic Control Units begins; Preparations to cut new accessway between RB & TB lower levels begin;
- 1/12 NRC Second Half 2021 Inspection Exit Meeting no reported issues, findings, or violations
 - 1/17 West Cooling Tower foundation demolition completed (except for required radiological surveys); Cleaning / decontamination of TB sumps underway
 - 1/24 Draining of RV Cavity & DSP resumes (started 11/8/2021); Travelling Screens removed from River Intake Structure
- 1/28 Draining of RV Cavity & DSP completed; Circulating Water System pump motors
 removed from River Intake Structure
- 2/7 First Nuclear Regulatory Commission (NRC) onsite inspection of the year occurs (2/7 through 2/10)
- 625 3/7 RV Bellows removal begins; RV draining for eventual segmentation underway;
 626 New TB personnel entrance cut into Lube Oil Storage Room west wall
- 627 3/9 Current phase of River Intake Structure components removal complete; River
 628 Discharge Structure components removal begins
- 3/10 RV draining completed; removal of remaining RV Head Studs begins
- 3/16 Quarterly groundwater sampling completed
- 3/17 RV Head Studs removal completed; RV metal shavings / cutting media collection

632		& RV internal surface decontamination completed
633	• 3/24	RV Bellows removal completed; RV Nozzles cutting begins
634		NorthStar files required Annual VY Decommissioning Trust Fund and Spent Fuel
635	•	Management Fund reports
636	• 3/31	Removal of Control Blade Hydraulic Control Units completed
637	• 4/4	Cutting for new accessway between RB & TB lower levels begins
638	• 4/4	Second NRC onsite inspection of the year occurs (4/4 through 4/7)
639	• 4/14	VY "Tabletop" Site Emergency Drills Completed
640	• 4/18	Radiation Control Area (RCA) entrance relocated to TB Lube Oil Storage Room
641		Diesel Fire Pump & Circulating Water System Pumps removed from River Intake
642		Structure
643	• 4/29	Site staff in remaining RB & TB offices relocated to Plant Support Building & adjacent
644		office trailers; Onsite Chemistry Lab moved to Gate House #2
645	• 5/1	VY Start-Up Transformers disconnected from onsite switchyard, resulting in
646		RB & TB transition to "cold & dark" conditions
647	• 5/2	RV segmentation begins; removal of abandoned RB & TB electrical systems begins;
648		cable clearing and dismantling of VY Control Room begins
649	• 5/6	First RV "ring cut" segmentation completed; component removals from River Intake
650		& Discharge Structures complete (concrete structures to be removed later)
651	• 5/9	Excavation / underground pipes & foundations removal at Cooling Towers begins
652	• 5/13	Cutting for new accessway between RB & TB lower levels completed
653	• 5/23	Internal demolition (gutting) of TB "plant services" module begins
654	• 5/30	Materials Transfer "monorail" construction through RB & TB lower levels accessway
655		begins
656	• 6/1	Annual site roadway assessment completed (required by Town of Vernon)
657	• 6/10	RV Nozzles cutting completed
658	• 6/13	VY Control Room dismantling completed; VY Cable & Switchgear Rooms dismantling
659		begins
660	• 6/13	Third NRC onsite inspection of the year occurs (6/13 through 6/17)
661	• 6/16	New NRC Project Manager for VY Decommissioning visits site
662	• 6/22	Quarterly groundwater sampling completed; Annual groundwater sampling report
663		submitted for DEC review
664	• 6/29	Fifth & final RV "ring cut" segmentation completed
665	• 6/30	1.3 million working hours without an OSHA recordable injury at VY celebrated
666	• 7/5	Torus Structure segmentation begins
667	• 7/11	Excavation for remediation & removal of VY Interim Off-Gas (IOG) System begins
668	• 7/12	NRC First Half 2022 Inspection Exit Meeting – no reported issues, findings, or
669		violations
	• 7/18	Excavation / structures removal at Cooling Towers site completed; regrading at
671		Cooling Towers site begins
-	• 7/25	
673	• 8/1	IOG System structures demolition begins
		(DRAFT Version as of 12/08/2022) Page 17 of 34

674	•	8/1	Fourth NRC onsite inspection of the year occurs (8/1 through 8/4); Preliminary
675 676		0 / 4	License Termination Plan (LTP) meeting held at site RV Lower Head removed from RV Cavity; segmentation for offsite disposal begins
	•	8/4 0/16	, ,
677 679	•	8/16	NRC onsite for follow-up to 8/1 to 8/4 inspections
678	•	8/18	RV Lower Head segmentation completed
679	•	8/22	Torus Structure sludge removal begins; IOG System demolition completed
680	•	8/29	Excavation to remediate former Effluent Stack site begins
681	•	9/2	Torus Structure sludge removal completed; VY Cable & Switchgear dismantling
682			completed; final preps for demolishing "Control Block" building underway;
683		0./15	demobilization of RV segmentation equipment underway
684	•	9/15	Demolition of Control Block building begins
685	•	9/29	Demolition of Control Block building completed
686	•	9/30	Regrading at Cooling Towers site completed; Final radiological surveys at
687		10.10	Cooling Towers site begin
688	•	10/3	Fifth NRC onsite inspection of the year occurs (10/3 through 10/6)
689	•	10/4	NRC assigned License Termination Inspector visits site
690	•	10/6	Final radiological surveys at Cooling Towers and IOG System sites completed
691	•	10/10	DEC issues revised VY river discharge permit for public comment
692	•	10/10	RB Recirculating Water System (RWS) components removal begins
693	•	10/12	Onsite Radiological Emergency Drill completed
694	•	10/17	Demolition of Orano onsite Horizontal Transfer (radwaste) Storage modules begins
695	•	10/19	Greater-Than-Class C Radioactive Waste moved to VY Dry Cask Storage Pad
696	•	10/21	Last container of RV segments shipped to Waste Control Specialists
697	•	10/24	Orano demobilization from VY site begins
698	•	10/27	RWS Pump Motors removed
699	•	10/31	Equipment removals from RB airlock & Containment Access Building begin
700	•	11/7	Final draining & decontamination of Spent Fuel Pool begins; components clearing in
701			RB Radwaste Clean-Up System Room underway
702	•	11/10	Demolition of Orano Horizontal Transfer Storage (HTS) modules completed
703	•	11/14	DEC approves revised VY river discharge permit
704	•	11/14	Sixth NRC onsite inspection of the year occurs (11/14 through 11/17); NRC
705			Contractor conducts independent, confirmatory survey at Cooling Towers site
706	•	11/14	Demolition of Containment Access Building begins; RB Airlock equipment removals
707			completed
708	•	11/15	Demolition of Containment Access Building completed
709	•	11/21	Demolition of RB Airlock begins
710	•	11/22	Clearing of Orano HTS debris completed (last Orano task at VY site)
711	•	11/23	Orano demobilization from VY site completed
712	•	11/28	Excavations at former IOG System site covered and regraded; area cordoned-off
713		•	as radiologically clean
714	•	12/20	Demolition of RB Airlock completed

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717	V. Nuclear Decommissioning Trust (NDT) and Site	e Restoration Trust (SRT) Fund Updates
718	(Based on latest available data for 2022).	
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720	NDT	SRT
721	\$276.3 M Balance on December 31, 2021	\$56.9 M Balance on December 31, 2021
722	\$247.9 M Balance on March 31, 2022	\$52.8 M Balance on March 31, 2022
723	\$226.8 M Balance on June 30, 2022	\$52.2 M Balance on June 30, 2022
724	\$203.1 M Balance on September 30, 2022	\$50.8 M Balance on September 30, 2022
725	\$196.0 M Balance on October 31, 2022	\$50.6 M Balance on October 31, 2022
726	\$ <mark>XXX.X</mark> M Balance on December 31, 2022	\$ <mark>XX.X</mark> M Balance on <mark>December 31,</mark> 2022
727		
728	Monthly balances for the NDT and SRT are available	at:
729	https://publicservice.vermont.gov/content/trus	st-balances.
730		
731	Summaries of monthly expenditures for the Vermon	
732	available: https://publicservice.vermont.gov/com/	ntent/public-reports.
733		
734	VI. Spent Nuclear Fuel Status at Vermont Yankee	
735	Transfer of VY's entire spent fuel inventory to dry ca	sk storage was completed on August 1.
736	2018. A total of 58 dry casks, holding a total of 3,880	
737	Independent Spent Fuel Storage Installation (ISFSI).	·
738	VY's dry casks occurred in 2022, on October 19, a ne	9
739	Than-Class C (GTCC) low level radioactive waste was	
740	consists of several highly contaminated VY Reactor V	•
741	stored temporarily in VY's Spent Fuel Pool following	-
742	move, all VY GTCC waste resides at the VY ISFSI. VY	-
743	the US Department of Energy fulfills its obligation to	-
744	repository. VY's GTCC waste will remain at the VY IS	
745	facility is licensed to accept GTCC waste.	1
746		
747	A total of 6 vacant cask spaces remain on VY's ISFSI	pads. Four of these are required should the
748	arrangement of the dry casks on the two ISFSI pads r	
749	remaining two spaces were designated for storing ac	
750	Waste. Early (circa 2014) GTCC volume estimates su	
751	three GTCC waste casks. More refined estimates (cir	== = = = = = = = = = = = = = = = = = = =
752	GTCC waste cask would be necessary.	,

VII. Significant Vermont Yankee Site Changes

Monitoring of the Vermont Yankee Spent Nuclear Fuel is controlled from the site's Central Alarm Station (CAS) Building, which became operational on August 23, 2018. No significant changes to Vermont Yankee's spent fuel monitoring programs occurred during 2022. All Vermont Yankee site changes occurring in 2022 resulted from the continuation of decommissioning activities which commenced on January 11, 2019.

The following onsite structures were demolished during 2022:

- Control Room Block (Building)
- Containment Access Building
- Interim Off-Gas System Structures
- Orano Horizontal Transfer Storage Modules (reinforced concrete structures used for temporary radwaste storage)
- "Plant Services" Building (partial demolition of a section of the Turbine Building)
- River Intake & Discharge Structure major components (structures themselves remain)
- Several below grade Cooling Tower structures
- Abandoned security structures & barricades (none of which impact the VY ISFSI)

Additionally, the power transformer connections to the Reactor and Turbine Buildings were disconnected on May 1, disconnecting these buildings from the local power grid. By doing so, the wholesale removal of electrical connections within these buildings could safely begin.

Segmentation and removal of the Reactor Vessel was completed in October. RB demolition efforts have turned to removing major components from abandoned reactor systems. Similar component removals will continue throughout 2023. To help facilitate these component removals, a new accessway between the Reactor and Turbine Building lower levels was cut. A monorail system for moving RB component segments through this accessway for packaging and offsite disposal became operational in November.

 The partial demolition of the Plant Services section of the Turbine Building has resulted in two significant onsite changes. Personnel access into the Reactor and Turbine Buildings is now through a new doorway cut into the TB Lube Oil Storage Room. The site's previous Radiation Protection Checkpoint (site of the previous personnel accessway for both buildings) has been demolished. Radiation Protection Checkpoint functions are now performed in the Lube Oil Storage Room and Gatehouse #2. Additionally, the Radiation Protection Checkpoint's onsite Chemistry Laboratory has moved to Gatehouse #2.

The concrete pads for the previously demolished Shipping and Receiving Warehouse and the Advanced Off-Gas (AOG) Building remain in place. The below grade structures for the AOG Building and the Transformer pad also remain in place.

No significant onsite road repairs were required this year. Maintenance for the onsite rail spur occurred on an as needed basis but did not impact radioactive waste and debris shipments to offsite facilities.

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VIII. Vermont Yankee Water Management Program

- Rainfall at the VY site during 2022 returned to more typical annual values (rather than the unusually high 2021 rainfall). Accordingly, the rate of groundwater entering the Turbine Building in 2022 is similar to rates seen in 2018 through 2020.
 - o In leakage rates ranged between 200 and 700 gallons per day in 2022
 - At End of Year, the rate was roughly 300 gallons per day (similar to previous end of year rates).
 - o In leakage remains below rates initially seen in 2015
- Roughly 450,835 gallons of in-leakage water have shipped in 2022
 - All VT Yankee water shipments were sent to Waste Control Specialists (WCS) NRClicensed disposal site in Andrews County, Texas during 2022.
 - No water has shipped to US Ecology's hazardous waste disposal facility in Grandview, Idaho, even though Vermont Yankee received NRC approval in 2021 to ship up to 2,000,000 gallons of contaminated water to this facility. Vermont Yankee was previously allowed to ship a total 200,000 gallons of contaminated water to this facility during 2019 and 2020.
 - o 20 in-leakage water shipments occurred in 2022, all shipments made were via tanker rail cars.
 - Each in-leakage water shipment contained no more than 0.004 Curies of radioactive material
 - o Groundwater shipments to WCS facilities continue "as-needed."
- A total of 1,709,000 gallons of in-leakage water have been shipped to date
- The system of water diversion wells installed in 2020 along the Turbine Building periphery to mitigate future water shipments remains in use. However, this system does not address all potential intrusion water sources. Diverted, uncontaminated water is discharged to the Connecticut River on an as-needed basis. Each discharge is limited to ~15,000 gallons per day.
- VY completed shipping a roughly 900,000 gallon inventory of contaminated Process Water (water from abandoned VY systems) previously stored in the Suppression System Torus to WCS facilities. Shipments of this inventory began in 2021.
 - ~23,000 gallons per shipment
 - o 20 shipments (438,000 gallons) shipped in 2022
- During 2022, VY also shipped roughly 288,000 gallons of contaminated water previously used in the Spent Fuel Pool to WCS facilities. This was the last Process Water inventory at the site.
 - ~23,000 gallons per shipment
 - 13 shipments (entire inventory) shipped in 2022
 - Each Process Water shipment contained between 0.065 and 0.1 Curies of radioactive material

IX. Decommissioning Waste Shipments Summary

A summary of radiological and hazardous waste shipments made from the Vermont Yankee site during 2022 follows.

IX.A Radioactive Waste Shipments Summary

An annual summary of Vermont Yankee's radioactive waste shipments is published in mid-May of the following calendar year as part of the "Radioactive Effluent Release Report" filed with the US Nuclear Regulatory Commission and the Vermont Public Service Department. Preliminary radioactive waste volume data available as of November 21, 2022 indicates that approximately 300,000 cubic feet of radioactive waste was shipped from the Vermont Yankee site during 2022 (similar to radioactive waste volumes shipped in 2020 and 2021). The total weight of the waste shipped in 2022 exceeds 19,000,000 pounds (>9,500 tons). The total radiological activity of the shipped waste is 11,100 Curies (somewhat lower than the 27,460 Curies shipped in 2021, but well up from 522.8 Curies and 126,8 Curies shipped in 2020 and 2019, respectively). All 2022 calendar year radioactive waste shipments were sent to Waste Control Specialists' (WCS) disposal facility Andrews County, Texas. 152 radioactive waste shipments were made in 2022; 122 of these were made via railcar. The remaining 30 shipments were made by truck.

Based on data provided by NorthStar in response to Panel questions in April 2021, the total activity of radioactive waste stored at the VT Yankee site is estimated as follows:

• Total activity stored at the VY Independent Spent Fuel Storage Installation (ISFSI), consisting of 3880 spent fuel bundles stored in 58 spent fuel cannisters: 117,176,000 Curies (roughly 2,054,000 Curies per cannister)

• The Greater Than Class C radioactive waste cask recently moved to the VY ISFSI contains approximately 175,000 Curies.

IX.B Hazardous Waste Shipments Summary

- 6 tons of construction and demolition debris was shipped to the following facilities:
 - Resource Waste Services, Salem, NH
- 74 cubic yards of asbestos was shipped to the following facilities:
 - Minerva Landfill, Waynesburg, OH
 - WMNH Tree, Rochester, NH

- 609,360 pounds of ferrous and non-ferrous scrap metal was shipped to the following facility for recycling:
- Mattuchio Scrap Metal, Everett, MA

879	X. Vermont Congressional Delegation
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881	While Vermont Congressional Delegation Staff did not formally speak at any NDCAP Full Panel or
882	NDCAP Federal Nuclear Waste Policy Committee meetings during 2022, Staff from Senator
883	Bernie Sanders' and Congressman Peter Welch's Offices have kept Panel Leadership apprised of
884	DOE and NRC activities and publications of potential interest to the Panel. Most of these
885	communications came from Rebecca Ellis and Alex Piper of Congressman Welch's Office and
886	Haley Pero of Senator Sanders' Office.
887	
888	Communications with Congressman Welch's Office were especially helpful in arranging for Mr.
889	Oliver Edelson from California Congressman Mike Levin's Office to speak at the Federal Nuclear
890	Waste Policy Committee's October 3 meeting regarding the activities of the Congressional Spent
891	Nuclear Fuel Solutions Caucus. Details of this presentation are available in Section XI.B of this
892	report.
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894	Links to nuclear decommissioning and spent fuel policy-related bills that Senator Sanders and
895	Congressman Welch have either sponsored or supported are available through the NDCAP
896	Federal Nuclear Waste Policy Committee webpage at:
897	https://publicservice.vermont.gov/content/vt-ndcap-federal-nuclear-waste-policy
898	
899	Following the announced retirement of Senator Patrick Leahy and the subsequent election of
900	Congressman Welch as Vermont's newest Senator, NDCAP will work to assure that
901	communication between the Panel and Senator Sanders, Senator-Elect Welch, and
902	Congresswoman-Elect Balint's Offices continue to be a valuable information resource for Panel
903	activities.
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906	XI. Current NDCAP Committees
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908	XI.A NDCAP Issues Committee
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910	The Issues Committee, formed in 2015 and reconstituted in 2019, is intended to provide
911	recommendations for topics to be discussed at meetings of the Full Panel. The Issues Committee
912	did not meet during 2022. For 2022, the Issues Committee's function (selection of meeting
913	topics) was performed by the Full Panel at its regular meetings, with additional interactions
914	between the Panel Chair and the State Nuclear Engineer as needed.
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916	XI.B NDCAP Federal Nuclear Waste Policy Committee
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918	NDCAP created the Federal Nuclear Waste Policy Committee in December 2020 as a means for

the Panel to learn more about US national spent nuclear fuel storage and disposal issues. The

Committee is developing recommendations on US nuclear waste policies for the Full Panel to

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921	consider as potential Advisory Opinions on these subjects. The Committee consists of the
922	following Panel members: Lissa Weinmann (Committee Chair), Corey Daniels, Maddy Arms, and
923	Marvin Resnikoff. No other Panel members attended any of the Committee's meetings held in
924	2022. The Committee is administered by State Nuclear Engineer Tony Leshinskie.
925	
926	The Committee met 5 times in 2022, all via Teams webcast, to learn more about current US
927	national spent nuclear fuel storage and disposal policies. Several of the Committee's 2022
928	meetings included guest speakers from individual nuclear waste policy stakeholders. Brief
929	summaries for each meeting are included below. The Committee continued to compile a reading
930	list of relevant materials. This list is available at the Committee's webpage at:
931 932	https://publicservice.vermont.gov/content/vt-ndcap-federal-nuclear-waste-policy
933	This webpage also includes recordings of the individual Committee meetings.
934	This webpage also includes recordings of the marviadar committee incettings.
935	Through the course of 2022, the Committee built on its 2021 Calendar Year work. A summary of
936	this earlier work is available at:
937	https://publicservice.vermont.gov/content/federal-nuclear-waste-policy-committee-rev-2-
938	<u>draft-report</u>
939	
940	January 31, 2022 Committee Meeting
941	The Committee began the year by assessing the US Department of Energy's December 2021
942	Request for Information (RFI) regarding the temporary, consolidated storage of spent nuclear
943	fuel using a Consent-Based approach. This RFI is available at:
944	https://www.federalregister.gov/documents/2021/12/01/2021-25724/notice-of-request-for-
945	information-rfi-on-using-a-consent-based-siting-process-to-identify-federal
946	
947	Further details on this Consent Based Siting process are available at:
948	https://www.energy.gov/ne/consent-based-siting
949	
950	Based on discussions and public input from the January 31 meeting, the Committee drafted an
951	Advisory Opinion that the Full Panel discussed at its February 28 meeting. The Committee's
952	draft Opinion is available at:
953	https://publicservice.vermont.gov/content/vt-ndcap-draft-advisory-opinion-usdoe-consent-
954	based-siting-request-information
955	
956	As noted in Section III, the Full Panel approved a version of this Advisory Opinion. The approved
957	version is available in Appendix A.
958	
959	March 28, 2022 Committee Meeting
960	At this meeting, representatives from Deep Isolation, Inc. outlined their proposed alternative for
961	geologic spent fuel repositories. A Deep Isolation repository would store spent fuel in a series of
962	horizontal drilled holes between 1 to 2 miles in depth, using current technology for oil drilling.

The horizontal portion of each storage hole (where fuel assemblies would be stored) could be 2 to 3 miles long. Individual repository holes would store fuel assemblies end-to-end, with up to 200 fuel cannisters (individual fuel assemblies) per borehole. Further information on Deep Isolation's proposal is available at:

https://www.deepisolation.com/nuclear-waste-solutions/

While most of Deep Isolation's research into this proposal assume a shale geology, other bore hole depths for other geologies can be determined. Much of Deep Isolation's current research is intended to establish site selection criteria

May 23, 2022 Committee Meeting

The May 23 meeting featured a presentation by representatives of Holtec International (Joy Russell and Kim Manzione), who provided an overview of its spent nuclear fuel storage systems used at Vermont Yankee. Aging management of these systems and proposed long-term spent fuel storage was discussed, resulting in a lively questions and answers period. From the presentation and subsequent discussion, it was clear that efforts to qualify the spent fuel storage systems beyond their currently licensed 40-year use period remain under development. Holtec remains confident that the licensed use period for its spent fuel storage systems can be extended to as much as 100 years. Holtec's presentation slides provided for this meeting are available at: https://publicservice.vermont.gov/content/holtec-spent-fuel-storage-aging-management-presentation-vt-ndcap-nuclear-waste-policy.

October 3, 2022 Committee Meeting

The October 3 meeting was devoted to a discussion with Mr. Oliver Edelson, Legislative Assistant to California Congressional Representative Mike Levin. Congressman Levin, whose district includes the actively decommissioning San Onofre Nuclear Generation Station, co-chairs the Congressional Spent Nuclear Fuel Solutions Caucus, which Mr. Edelson administers.

The meeting discussion outlined the Caucus' current efforts. Presently, the Caucus is focused on getting various sides in spent nuclear fuel policy debates to talk to each other. The US Congressional Representatives that comprise the Caucus are in a learning phase to better grasp spent fuel-related issues. As part of this, the Caucus has begun meeting with other organizations interested in nuclear waste policy issues.

Part of the meeting discussion touched on several proposed bills that would address spent fuel issues to some extent. The Sensible, Timely Relief for America's Nuclear Districts Economic Development (STRANDED) Act was mentioned as one option. The Increasing Nuclear Safety Protocols for Extended Canister Transfers (INSPECT) Act, which would require a Resident NRC Inspector at decommissioning nuclear power plants until all spent fuel has been removed from a site's spent fuel pool(s), was also discussed.

Mr. Edelson's presentation to the Committee is available at:

1005 https://publicservice.vermont.gov/content/presentation-congressional-spent-nuclear-fuel-
 1006 solutions-caucus.

Links to the STRANDED and INSPECT bills are also available from the Committee website.

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A key point to the meeting's discussion was that selecting a spent nuclear fuel repository site (regardless of whether an interim or permanent facility is being considered) is not quick work. Finland recently established its national spent fuel repository after a 35-year siting effort. Sweden, Switzerland, and Canada have made recent progress following sustained (multi-year) siting efforts.

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December 5, 2022 Committee Meeting

The December 5 meeting provided the Committee with an opportunity review its 2022 activities. The summary of Committee activities included in the (12/01/2022 version of the) VT NDCAP 2022 draft Annual Report was reviewed and revised based on feedback from Committee

2022 draft Annual Report was reviewed and revised based on feedback from Committee

members and members of the public present at this meeting. Specifically, sentences were added to Section III noting the number of Committee meetings held this year. (This was done to show

the Panel's level of activity during 2022 early in the report.) The Committee's mission statement

1022 (adopted in March 2021) was added to Section II, since the Annual Report covers both Full Panel

and FNWP Committee activities. The Committee crafted a sentence for addition to the

1024 February 28 Full Panel meeting summary that emphasized that the recommended Advisory

Opinion (that was eventually adopted that evening) represented a consensus reached by

1026 Committee members, despite their divergent views and backgrounds on spent fuel issues. This

1027 consensus was reached through a civil, respectful process.

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The Committee meeting logistics for 2023 were discussed. The Committee agreed to continue meeting on a quarterly basis; the following meeting dates were chosen for 2023:

- 1031 March 6
- 1032 June 5
- 1033 September 11
- 1034 December 4

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Meetings will nominally run from 12 noon to 1:30 PM on those days. (Note that the March 6 meeting will likely run from 12 noon to 2 PM.) Committee meetings will be conducted primarily as webcasts. However, unless the Vermont Legislature opts to extend <u>ACT 78 of the 2022</u> <u>Legislative Session</u>, physical meeting spaces will be designated for these meetings. Lissa Weinmann will continue as FNWP Committee Chair during 2023.

1040 1041

The Committee then considered potential discussion topics during 2023. The Committee reached consensus that its March 6 meeting would discuss legal issues surrounding the Consolidated Interim Storage Facilities proposed in New Mexico and western Texas. Committee Member Marvin Resnikoff suggested Diane Curran and Jay Silberg as potential speakers for presenting the opposing sides in the CISF legal debate. Drs. Erica Bickford and Kim Petry were

1047 suggested as speakers who could provide the DOE's perspective on CISFs. The Committee will 1048 pursue having these suggested speakers attend the March 6 meeting. 1049 1050 Additional topics for consideration at subsequent 2023 Committee meetings include: 1051 DOE's Next Steps in Developing a Consent-Based Siting Process (which could be an 1052 additional presentation topic for Drs. Petry and Bickford) 1053 A Waste Control Specialists' Presentation on its Radwaste Disposal Operations 1054 Radioactive Waste Environmental Justice Issues 1055 Learn More about Low-Level Radioactive Waste Disposal in General Use of the US Justice Department's Judgement Fund for Spent Fuel Storage Expenses 1056 1057 A Presentation from the Nuclear Waste Strategy Coalition 1058 Spent Fuel Reprocessing History and Issues Whether a Statement Emphasizing the Need to Resolve Nuclear Waste Issues is Needed 1059 • 1060 The Committee will narrow down its discussion topics at its currently scheduled 2023 meetings. 1061 Additional meetings will be scheduled, if deemed necessary. 1062 1063 XII. Meeting Schedule and Priorities for 2023 1064 1065 1066 During the Panel's December 12 meeting, the Panel reached consensus on the following meeting 1067 dates for 2023: 1068 January 10: Special Meeting for approval of the 2021 Annual Report 1069 1070 February 28: Tentative meeting for discussing potential filings in response to the US 1071 Department of Energy's Consent-Based Siting Request for Information May 9: Regular meeting discussing and assessing the Decommissioning Project Annual 1072 1073 Status Reports (required by PUC Case 8880) 1074 September 19: Regular meeting (agenda items to be determined) December 12: Regular meeting (agenda items to be determined) 1075 1076 1077 The Panel continues to consider improvements in its public outreach. As noted in the 1078 September 19 and December 12 meeting summaries (see Section III), the Panel intends to use 1079 parts of its new \$35,000 annual budget to improve its webcast / hybrid meeting capabilities, and 1080 identify additional options for public outreach. 1081 1082 1083 1084

XIII. Panel Composition and Duties Change Recommendations

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As part of the Panel Duties outlined in Part II of the Panel Charter (see Section II of this Report), the Panel "shall assess further changes to the Panel's membership or duties as appropriate." The most recent changes in Panel composition and duties are those approved by the 2021 Legislature in Act 54. The Panel currently has no additional change recommendations for its composition or duties.



1098	
1099	March 3, 2022
1100	US Department of Energy
1101	Office of Nuclear Energy
1102	1000 Independence Ave. SW
1103	Washington DC 20585
1104	
1105	Re: Comments on the U.S. Department of Energy 'Request for Information on
1106	Using a Consent-Based Siting Process to Identify Federal Interim Storage
1107	Facilities'
1108	
1109	To Whom It May Concern:
1110	
1111	The Vermont Nuclear Decommissioning Citizens Advisory Panel submits the enclosed
1112	comments (Advisory Opinion) in response to the Department's December 2021
1113	'Request for Information on Using a Consent-Based Siting Process to Identify Federal
1114	Interim Storage Facilities.' These comments were approved by the Panel at a Special
1115	Meeting held on February 28. Presentations and other details from this meeting are
1116	available at the Panel website: https://publicservice.vermont.gov/electric/ndcap .
1117	
1118	Additionally, the Panel wishes to thank Dr. Kim Petry, Dr. Erica Bickford, Ms. Natalia
1119	Saraeva and Mr. Rob Howard of the Department for their presentation and
1120	supporting discussion at our February 28 meeting.
1121	
1122	Thank-you for your consideration. We appreciate the opportunity to share these
1123	comments with the Department and look forward to further interactions as the
1124	Consent-Based Siting Process progresses.
1125	
1126	Sincerely yours,
1127	
1128	
1129	/s/ Emily Davis
1130	Emily Davis, 2022 Panel Chair
1131	Vermont Nuclear Decommissioning Citizens Advisory Panel
1132	

1133 1134 1135	Advisory Opinion Adopted February 28, 2022 Comments on the U.S. Department of Energy 'Request for Information on Using a Consent-Based Siting Process to Identify Federal Interim Storage Facilities'
1136	a consent bused string i recess to identify i ederal interim storage i demices
1137	INTRODUCTION
1138 1139 1140 1141	The Vermont Nuclear Decommissioning Citizens Advisory Panel (VT NDCAP) appreciates the opportunity to share information and insights on 'Using a Consent-Based Siting Process to Identify Federal Interim Storage Facilities' and associated questions upon which the Department of Energy (DOE) seeks public input.
1142	
1143	BACKGROUND ON VT NDCAP
1144 1145 1146 1147 1148 1149	The 19 member VT NDCAP was established by an act of the Vermont legislature in 2014. It includes six citizen members, two each to be appointed by the Governor, the Senate President Pro Tempore and the House Speaker, as well as representation from eleven additional Vermont Yankee decommissioning stakeholder organizations, including the plant owner and the town where the facility resides, to oversee decommissioning of the Vermont Yankee nuclear reactor, share information with and receive feedback from the public.
1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160	In December 2020, the VT NDCAP voted to establish a committee to learn more about nuclear spent fuel storage and disposal concerns. The resulting Federal Nuclear Waste Policy Committee (FNWPC) met monthly in 2021 and continues to meet, studies federal policy options for nuclear waste storage and considers how Vermont Yankee is situated within the national landscape. By methodically procuring input from Vermont's federal delegation, industry experts and other stakeholders, the FNWPC accordingly advances the learning goals of VT NDCAP by sharing findings with the full Panel at regularly scheduled meetings. The Committee may recommend that the VT NDCAP adopt Committee-approved draft advisory language for the full VT NDCAP's consideration and potential vote in order to fulfill the Panel's stated purpose under Vermont law to: "advise the Governor, General Assembly, the agencies of the state, and the public on issues related to decommissioning."
1161 1162 1163 1164 1165 1166 1167	Some individual VT NDCAP members plan to submit independent information to DOE that may reflect different perspectives on how the US should solve the problem of where and how to store the nation's high level radioactive waste. The value of this document is that it reflects basic agreement among Committee members on the following points, voted on at a special session of the full VT NDCAP on February 28, 2022, a recording of which is available at: https://youtu.be/W7ZAHGUaD4M

1169 1170 1171 1172	Questions: 3 and 4: To what extent should development of an interim storage facility relate to progress on establishing a permanent repository? What other issues should DOE consider in developing a waste management system?
1173 1174 1175 1176 1177	In 2015, the Congress authorized a two-year consent-based siting process for the general siting for nuclear waste disposal facilities that was not limited to 'interim' sites. The process to date has not resulted in a successful siting of any waste disposal facilities. VT NDCAP believes management of the nation's nuclear waste management system must not depend upon inconsistent congressional appropriations.
1178 1179 1180 1181 1182	VT NDCAP recommends that development of a consolidated interim storage facility (CISF) should remain directly coupled to establishing a permanent repository as required under the Nuclear Waste Policy Act. In developing an integrated waste management system, VT NDCAP believes that DOE and the Administration should focus on amending existing law rather than relying on agency rulemaking.
1183 1184 1185 1186 1187 1188 1189 1190	Appropriate geomorphology and geohydrology of potential site selection for a permanent repository should be a limiting and qualifying factor in any consent-based siting. Prioritizing locations with sound environmental suitability will likely aid in establishing public acceptance and trust to obtain consent-based siting. With proper planning, moving high level radioactive waste from independent fuel storage installations (ISFSIs) should only happen one time. Any CISF(s) to be constructed and operated should ideally be sited at or in close proximity to a location that is also acceptable and approved for a permanent deep geologic repository. Any CISF or permanent repository should be subject to the same EPA standards other energy producers must adhere to.
1191 1192 1193	Further, asking a community to consent to act as an 'interim' site in the absence of any progress toward a permanent site will continue to undermine confidence in the DOE 'consent-based siting' process.
1194 1195	The VT NDCAP supports the application of the consent-based siting process to any previously designated high level radioactive waste disposal or storage sites.
1196	
1197 1198 1199 1200	DOE RFI, Area 2: Removing Barriers to Meaningful Participation / Question 5: What information do communities, governments, or other stakeholders need to engage with the Department on consent-based siting of federal interim storage facilities?
1201 1202 1203 1204 1205	Communities, governments, local stakeholders, and the nation at large need more information before deciding on the best course of a functioning integrated nuclear waste management system. The Nuclear Regulatory Commission says such waste is safely and securely stored at its current location. An independent and comprehensive economic analysis from the Congressional Budget Office or General Accounting Office on options for nuclear waste should inform how to proceed.
1206 1207 1208	All public comments received in DOE's 2015 to 2017 Consent-Based Siting effort should be available for public review and be considered as part of the DOE's current Request for Information.

1209	ADVISORY OPINION VOTING RECORD
1210	PANEL MEMBERS VOTING YES
1211	Madeline Arms (Town of Vernon); Todd Amato (Town of Vernon); Chris Campany (Windham Regional
1212	Commission); Sara Coffey (Citizen Appointee); Emily Davis (Citizen Appointee & Panel Chair); Marvin
1213	Resnikoff, Ph.D. (Citizen Appointee); Lissa Weinmann (Citizen Appointee & FNWPC Chair).
1214	
1215	PANEL MEMBERS VOTING NO
1216	None.
1217	
1218	PANEL MEMBERS VOTING TO ABSTAIN
1219	Corey Daniels (NorthStar Vermont Yankee); David Pearson (NorthStar Vermont Yankee);
1220	Jim Porter (VT Public Service Department Designee).
1221	
1222	PANEL MEMBERS ABSENT FOR THIS VOTE
1223	Trish Coppolino (VT Agency of Natural Resources); Dr. Bill Irwin (VT Agency of Human Services); Bob
1224	Leach (Citizen Appointee); Brett Long (VT Agency of Commerce and Community Development); Mark
1225	MacDonald (Vermont Senate); Laura Sibilia (Vermont Legislature); Josh Unruh (Citizen Appointee &
1226	Panel Vice-Chair).
1227	
1228	There are currently two vacancies on the Panel.
1229	END
1230	
1231	

1232 Appendix B: List of Acronyms Used in this Report

ANR	Vermont Agency of Natural Resources
AOC	Area of Concern (potential hazardous materials contamination location)
AOG	Advanced Off-Gas (system)
CAS	Central Alarm Station
CISF	Consolidated Interim Storage Facility
DEC	Vermont Department of Environmental Conservation
	(part of Agency of Natural Resources)
DOE	United States Department of Energy
DSP	Dryer / Separator Pit
EPA	United States Environmental Protection Agency
FNWP	Federal Nuclear Waste Policy (acronym for an active VT NDCAP Committee)
FPG	Four Points Group (a PSD consultant for VT Yankee's decommissioning)
GTCC	Greater than Class C (a type of low-level Radioactive Waste)
HEPA	High-Efficiency Particulate Air
HTS	Horizontal Transfer Storage
IBEW	International Brotherhood of Electrical Workers
IOG	Interim Off-Gas (system)
ISFSI	Interim Spent Fuel Storage Installation
LTP	License Termination Plan
MOU	Memorandum of Understanding
NDCAP	Vermont Nuclear Decommissioning Citizens Advisory Panel (VT NDCAP also used)
NDT	Nuclear Decommissioning Trust (fund)
NRC	United States Nuclear Regulatory Commission
ORISE	Oak Ridge Institute for Science and Education
OSHA	United States Occupational Safety and Hazards Administration
PCBs	Polychlorinated Biphenyl substances
PFAS	Per-Fluoroalkyl and Polyfluoroalkyl Substances
PSD	Vermont Public Service Department
PSDAR	Post-Shutdown Decommissioning Activities Report
RB	Reactor Building
RFI	Request for Information
RV	Reactor Vessel
RWCU	Radioactive Waste Clean-Up (system)
RWS	Recirculating Water System
SFP	Spent Fuel Pool
SRT	Site Restoration Trust (Fund)
TB	Turbine Building
VOCs	Volatile Organic Compounds

VY Vermont Yankee

WCS Waste Control Specialists (a sister company to NorthStar)